

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062220\
 Data File : VD065844.D
 Acq On : 22 Jun 2020 15:01
 Operator : VA/SY
 Sample : VD0622SBL01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBL01

Quant Time: Jun 23 06:53:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 05 13:07:30 2020
 Response via : Initial Calibration

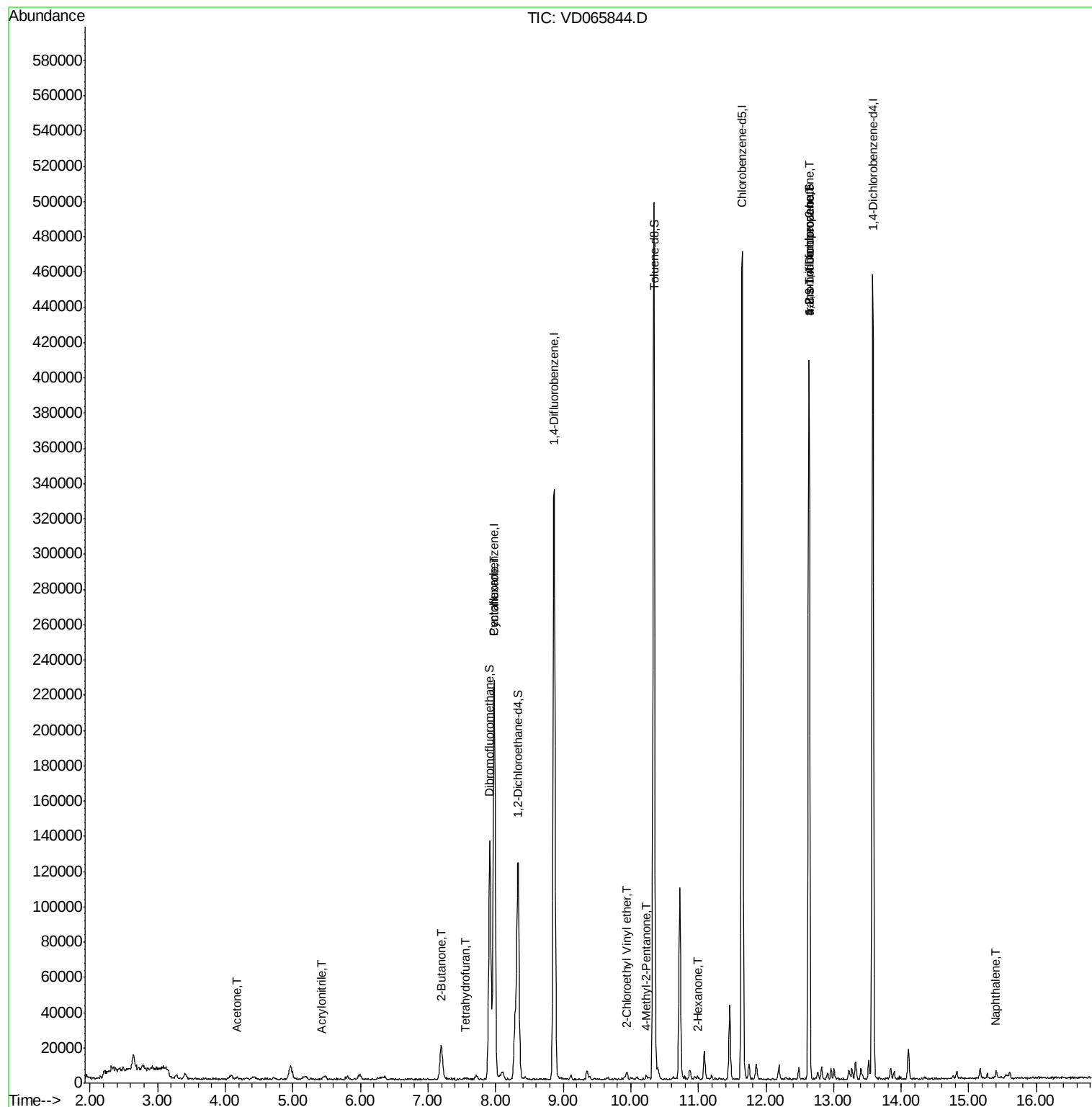
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	163138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	285277	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	258722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	114780	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	95996	59.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.10%	
35) Dibromofluoromethane	7.91	113	93719	52.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.02%	
50) Toluene-d8	10.34	98	338469	50.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.64	95	109867	48.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.42%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	746	Below Cal	#	52
3) Chloromethane	2.21	50	1305	Below Cal		90
11) Tert butyl alcohol	5.26	59	129	Below Cal	#	74
15) Acrylonitrile	5.43	53	472	1.450	ug/l #	69
16) Acetone	4.18	43	1952	6.419	ug/l #	84
18) Methyl Acetate	4.71	43	86	Below Cal	#	52
20) Methylene Chloride	4.96	84	5624	Below Cal	#	83
25) 2-Butanone	7.20	43	1904	4.534	ug/l #	52
29) Tetrahydrofuran	7.55	42	310	1.168	ug/l #	54
31) Cyclohexane	7.99	56	5882	2.035	ug/l #	62
51) 4-Methyl-2-Pentanone	10.22	43	1801	1.717	ug/l #	66
58) 2-Chloroethyl Vinyl ether	9.95	63	1789	2.405	ug/l	97
59) 2-Hexanone	10.98	43	1286	1.819	ug/l	96
76) 1,2,3-Trichloropropane	12.64	75	60191	67.429	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	60191	145.688	ug/l #	9
95) Naphthalene	15.41	128	3797	1.067	ug/l #	93

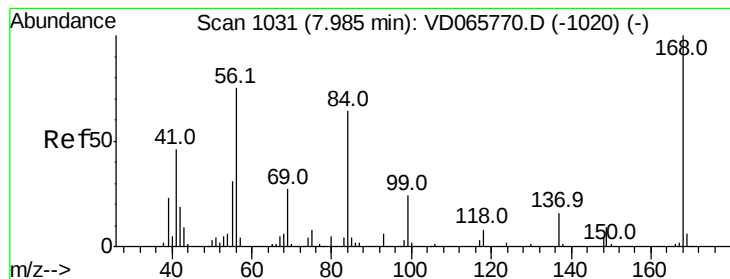
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

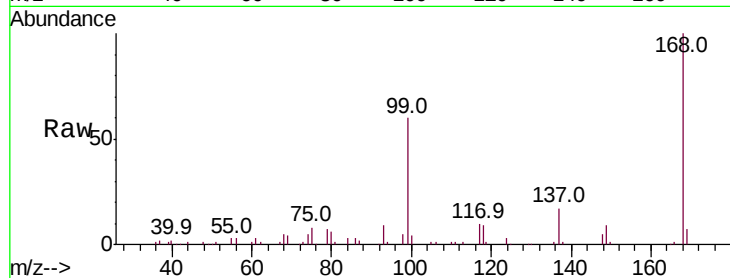
VD0622SBL01

Tot Ion:168 Resp: 163138

Ion Ratio Lower Upper

168 100

99 59.9 45.3 67.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

80000

60000

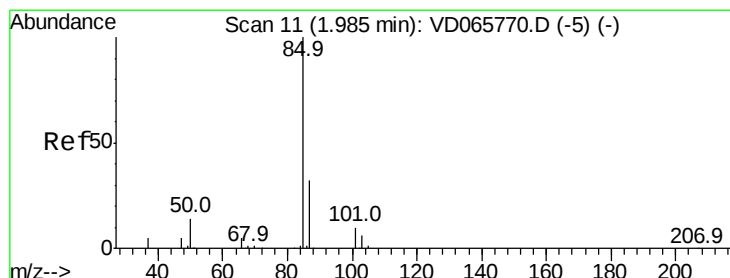
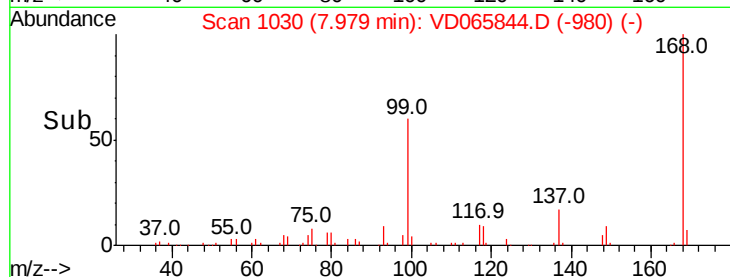
40000

20000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065844.D

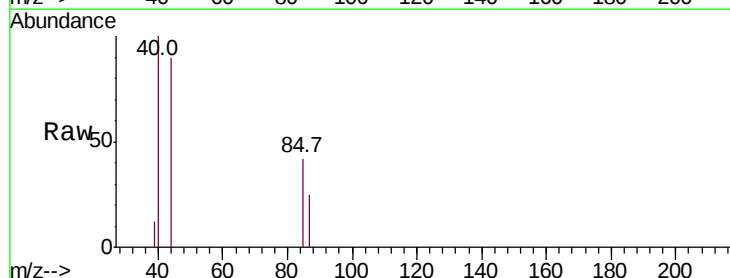
Acq: 22 Jun 2020 15:01

Tgt Ion: 85 Resp: 746

Ion Ratio Lower Upper

85 100

87 59.1 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

600

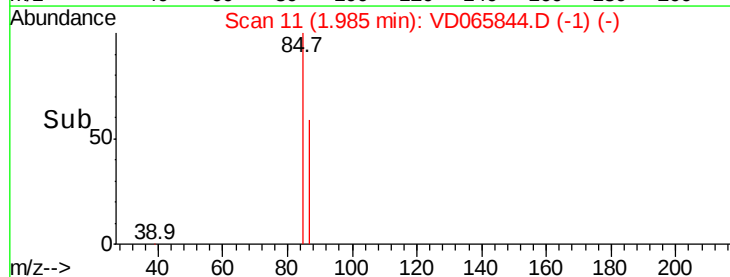
400

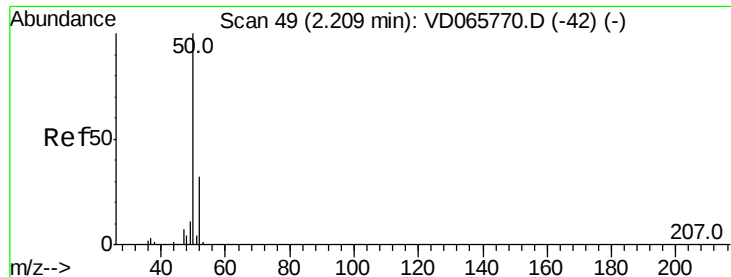
200

0

Time-->

1.94 1.96 1.98 2.00 2.02





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

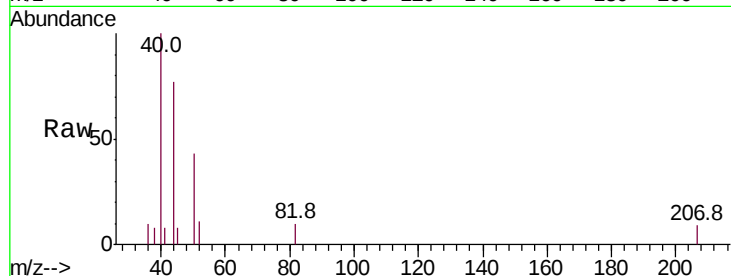
VD0622SBL01

Tot Ion: 50 Resp: 1305

Ion Ratio Lower Upper

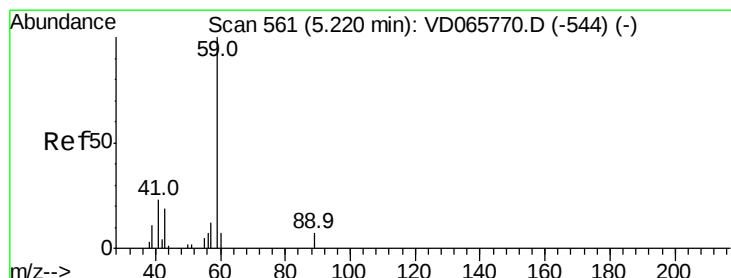
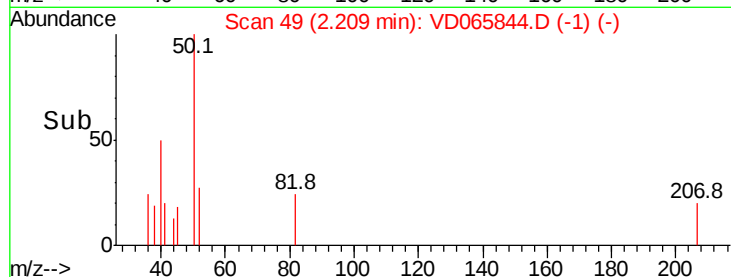
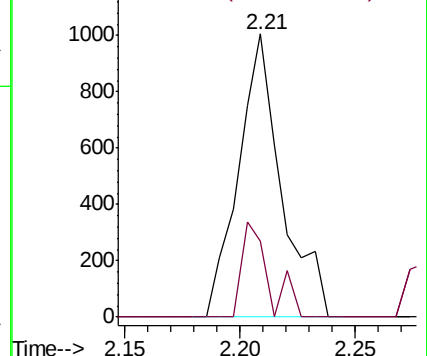
50 100

52 26.7 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.26 min Scan# 568

Delta R.T. 0.04 min

Lab File: VD065844.D

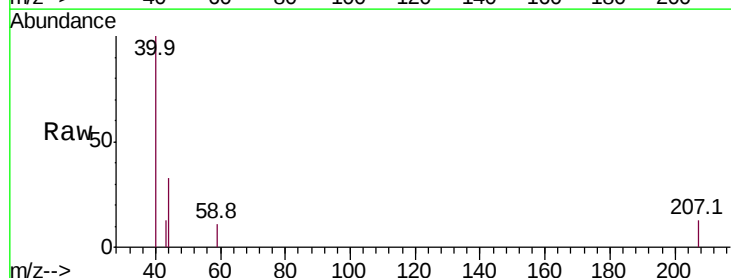
Acq: 22 Jun 2020 15:01

Tgt Ion: 59 Resp: 129

Ion Ratio Lower Upper

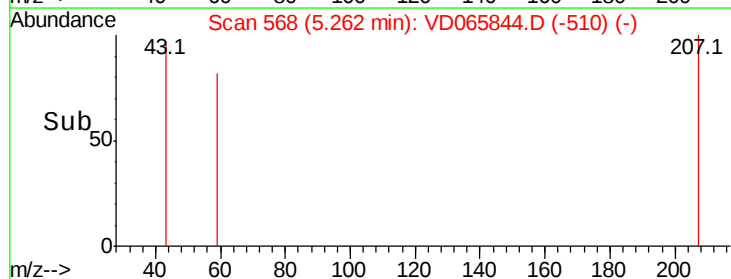
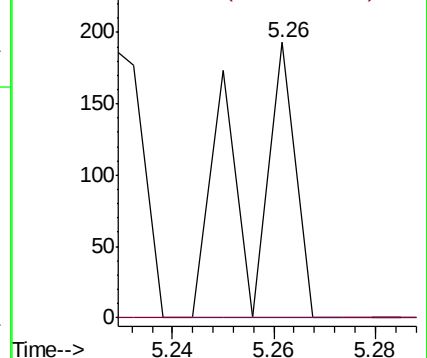
59 100

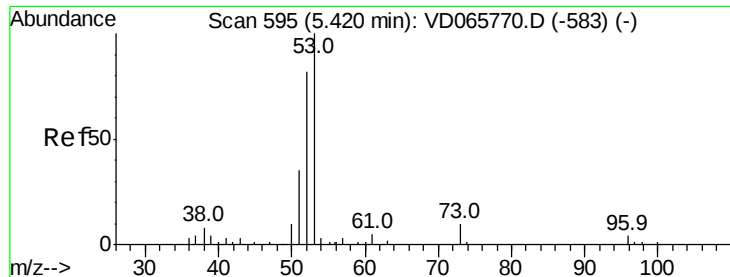
57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#15

Acrylonitrile

Concen: 1.450 ug/l

RT: 5.43 min Scan# 596

Delta R.T. 0.01 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBL01

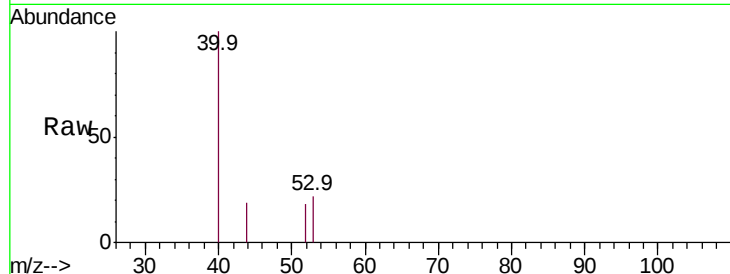
Tot Ion: 53 Resp: 472

Ion Ratio Lower Upper

53 100

52 50.6 66.2 99.2#

51 26.3 30.7 46.1#



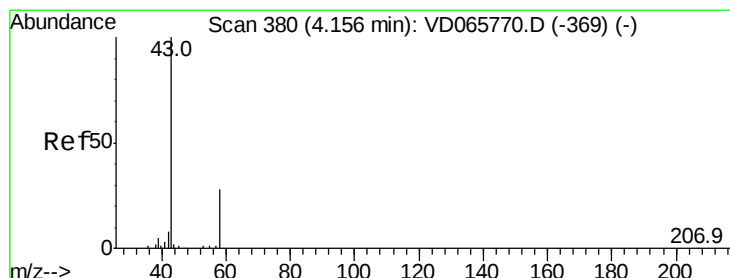
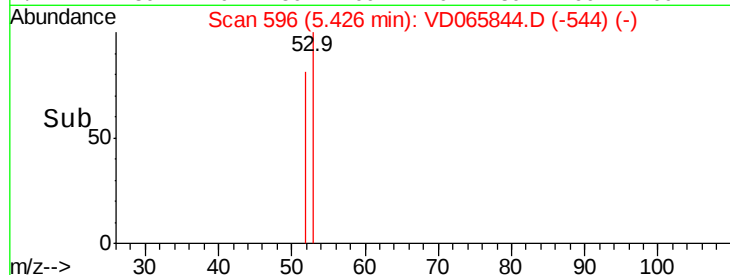
Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

5.43

Time--> 5.38 5.40 5.42 5.44 5.46



#16

Acetone

Concen: 6.419 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.02 min

Lab File: VD065844.D

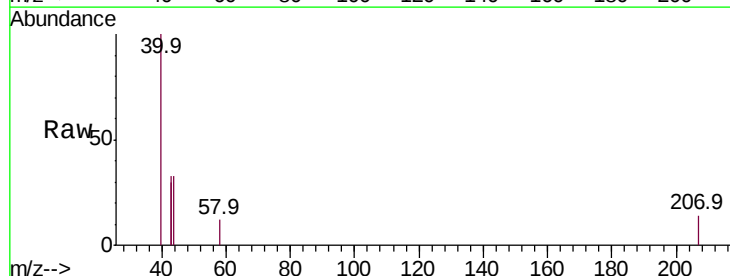
Acq: 22 Jun 2020 15:01

Tgt Ion: 43 Resp: 1952

Ion Ratio Lower Upper

43 100

58 19.3 22.3 33.5#

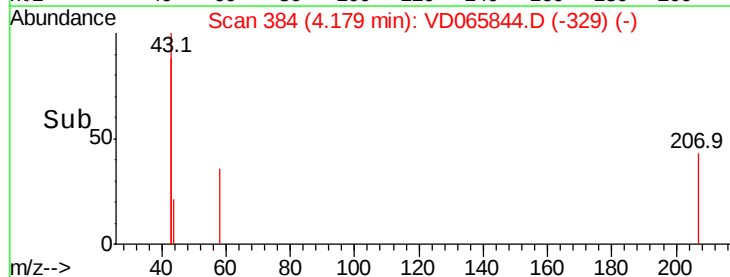


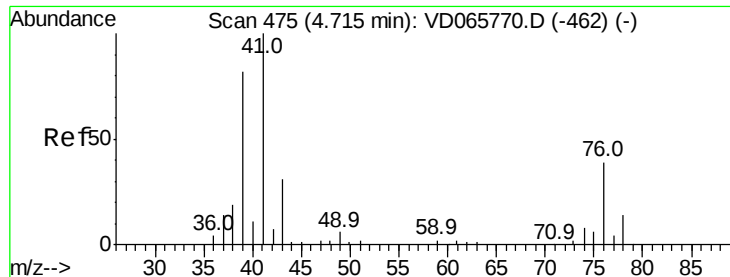
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.18

Time--> 4.10 4.15 4.20

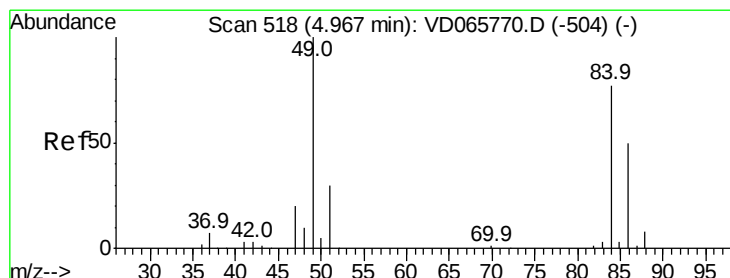
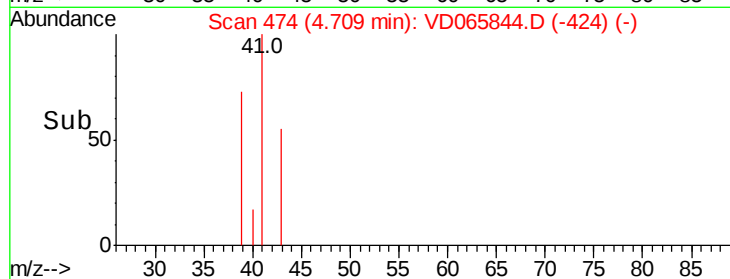
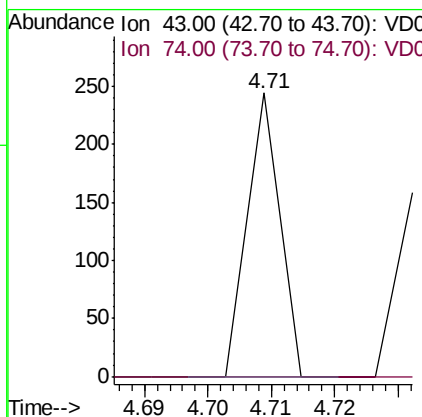
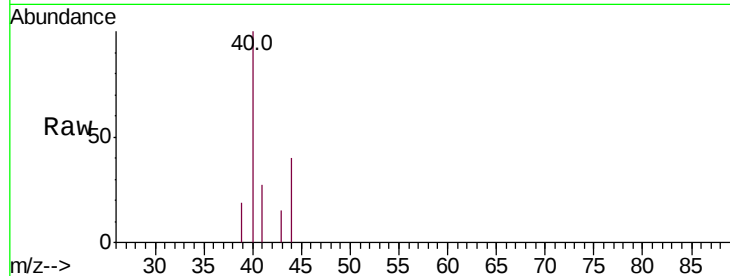




#18
Methyl Acetate
Concen: Below Cal
RT: 4.71 min Scan# 474
Delta R.T. -0.01 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

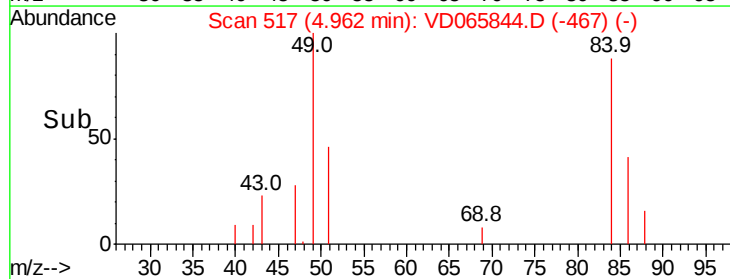
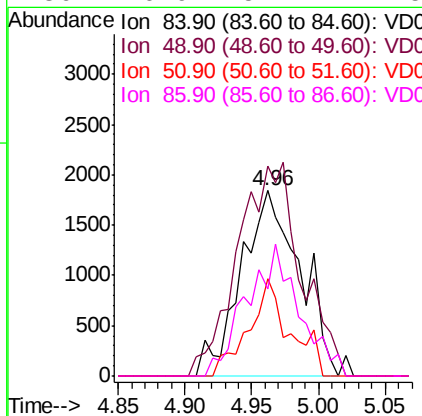
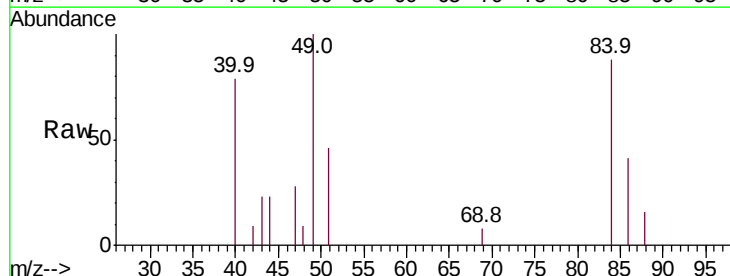
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBL01

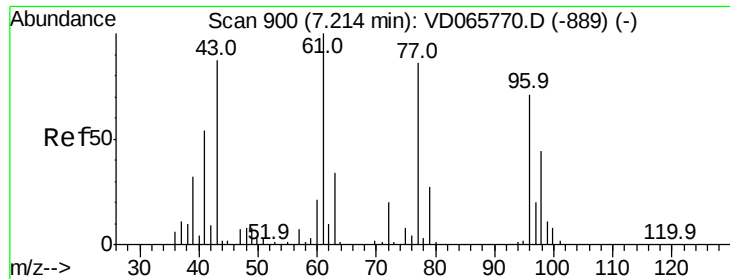
Tot Ion: 43 Resp: 86
Ion Ratio Lower Upper
43 100
74 0.0 18.7 28.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

Tgt Ion: 84 Resp: 5624
Ion Ratio Lower Upper
84 100
49 113.6 103.4 155.0
51 52.8 31.4 47.2#
86 46.9 51.7 77.5#





#25

2-Butanone

Concen: 4.534 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.02 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

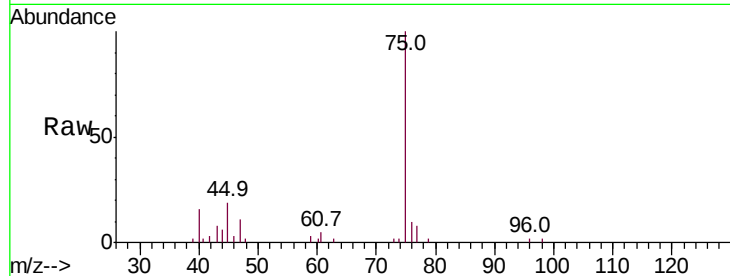
VD0622SBL01

Tot Ion: 43 Resp: 1904

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.20

800

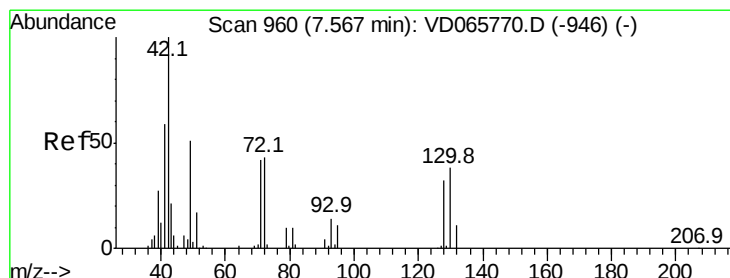
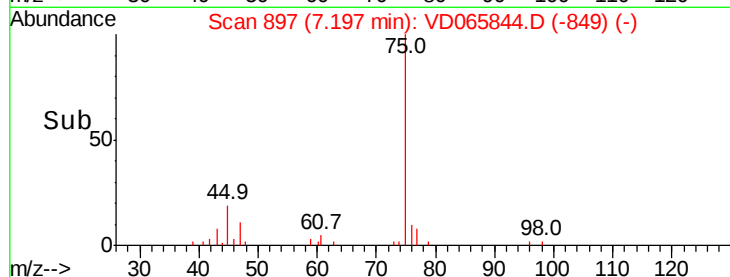
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 1.168 ug/l

RT: 7.55 min Scan# 957

Delta R.T. -0.02 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

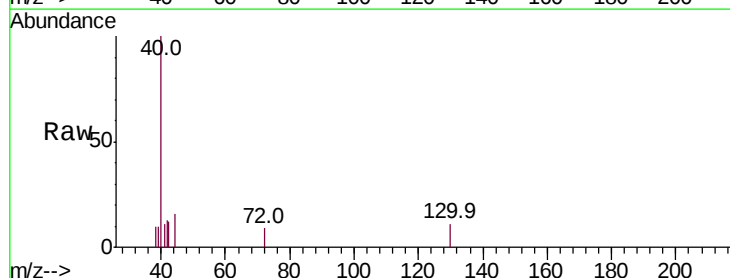
Tgt Ion: 42 Resp: 310

Ion Ratio Lower Upper

42 100

72 62.6 34.9 52.3#

71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

7.55

600

500

400

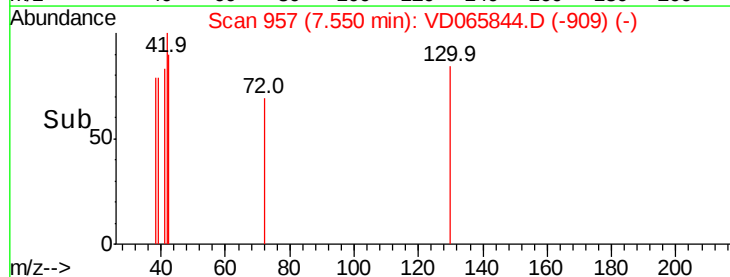
300

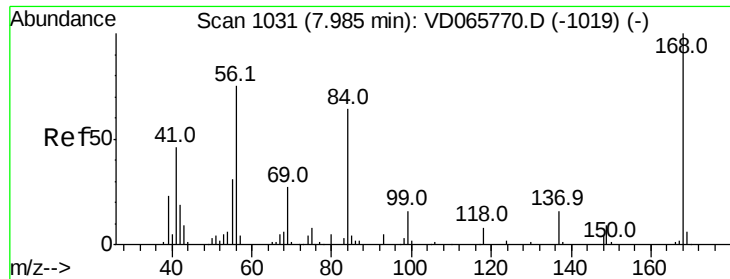
200

100

0

Time-->

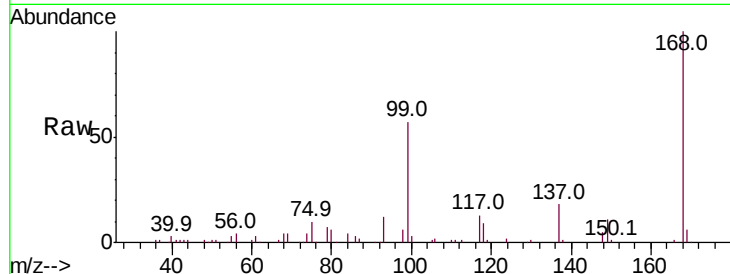




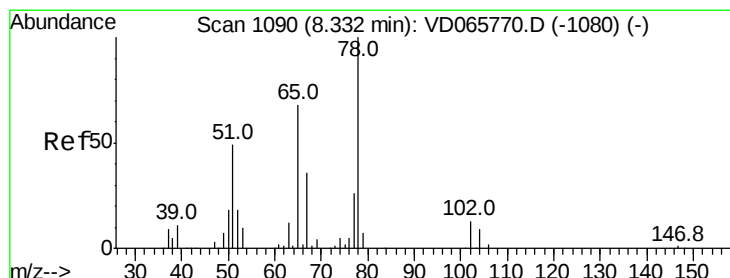
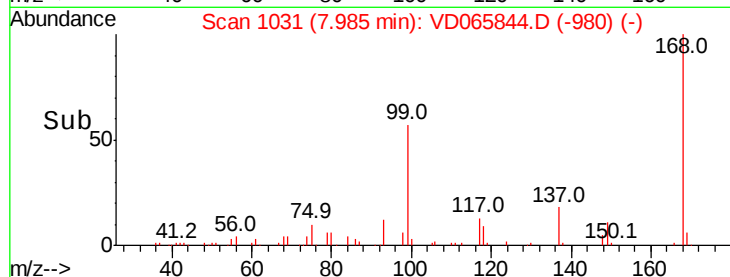
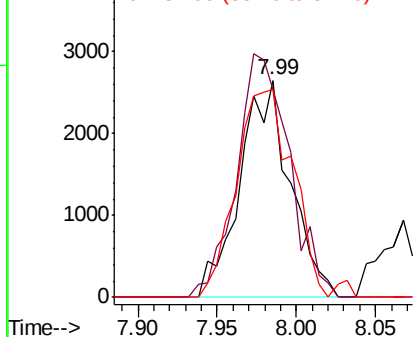
#31
Cyclohexane
Concen: 2.035 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBL01

Tot Ion: 56 Resp: 5882
Ion Ratio Lower Upper
56 100
69 95.9 28.5 42.7#
84 95.9 68.4 102.6

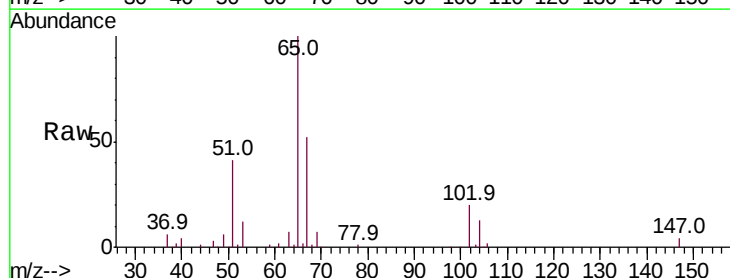


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

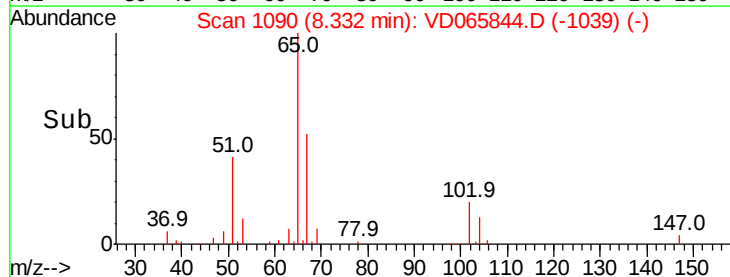
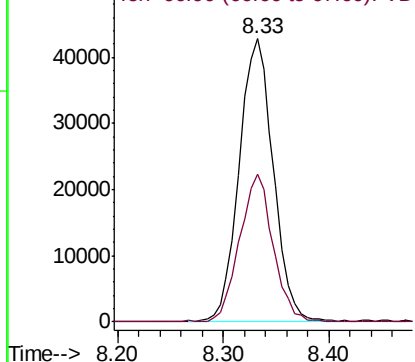


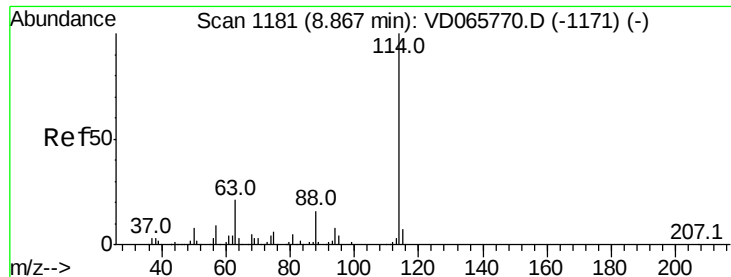
#33
1,2-Dichloroethane-d4
Concen: 59.550 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

Tgt Ion: 65 Resp: 95996
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

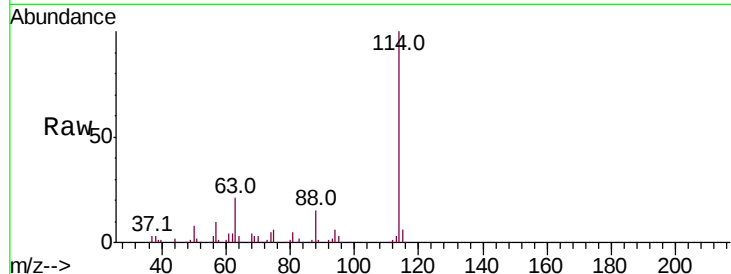




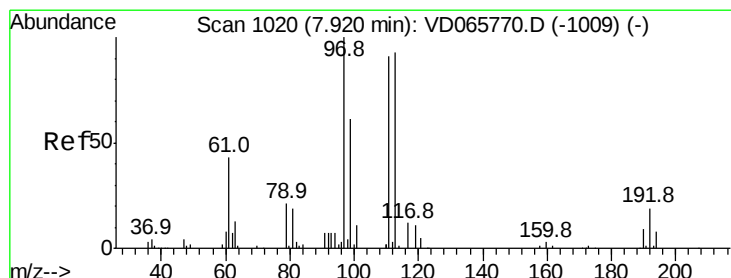
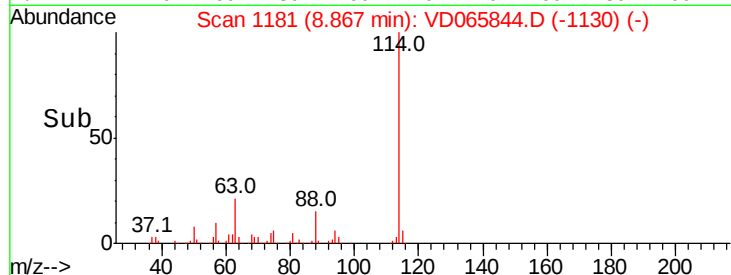
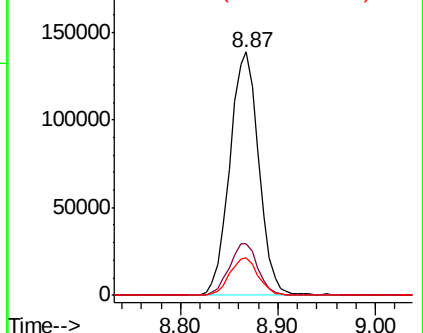
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBL01

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	41.8
88	15.5	0.0	32.0

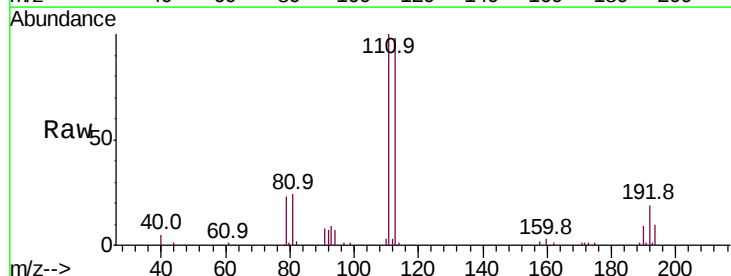


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

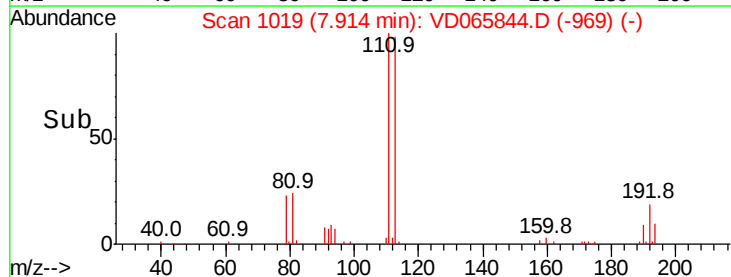
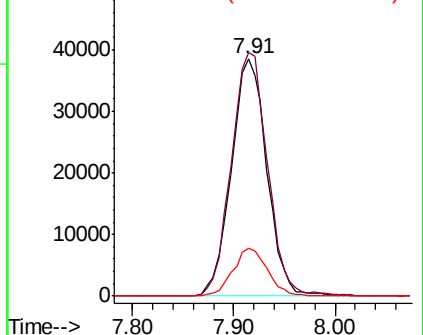


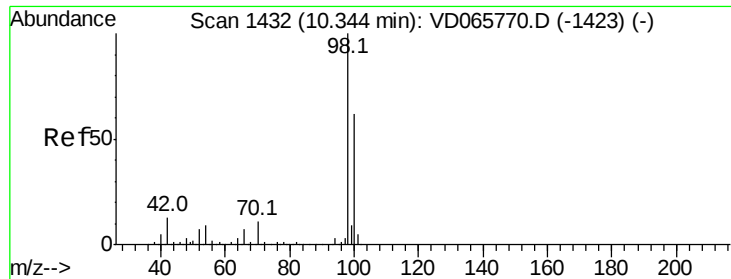
#35
Dibromofluoromethane
Concen: 52.009 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.0	83.4	125.0
192	19.4	15.7	23.5



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.372 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

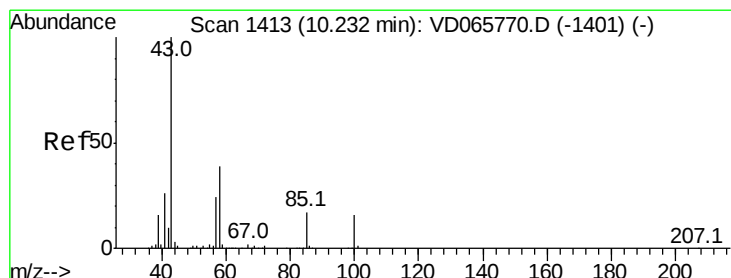
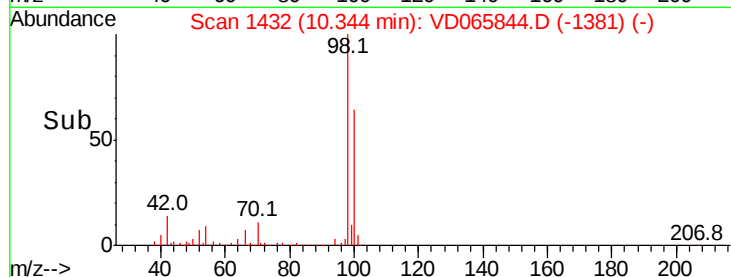
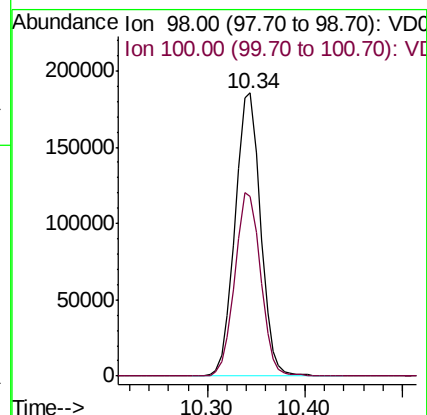
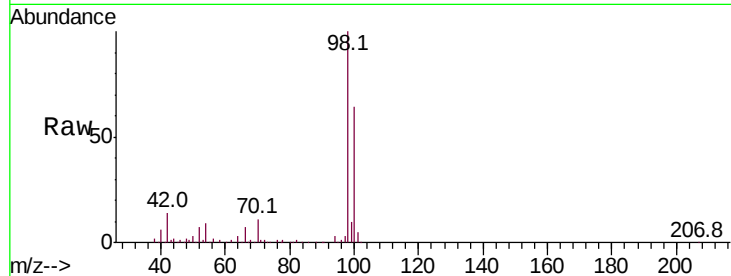
VD0622SBL01

Tot Ion: 98 Resp: 338469

Ion Ratio Lower Upper

98 100

100 65.7 51.4 77.2



#51

4-Methyl-2-Pentanone

Concen: 1.717 ug/l

RT: 10.22 min Scan# 1411

Delta R.T. -0.01 min

Lab File: VD065844.D

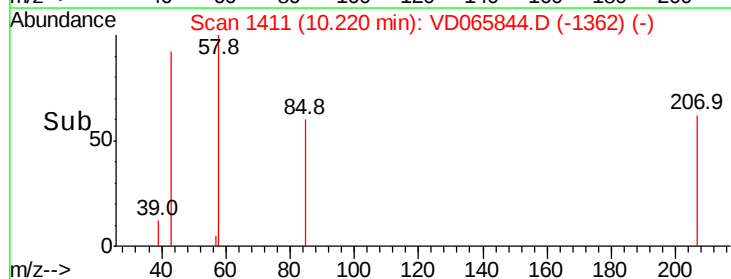
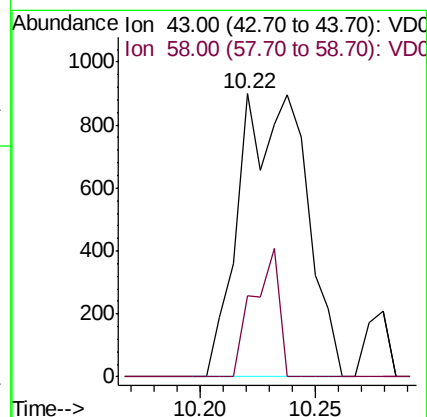
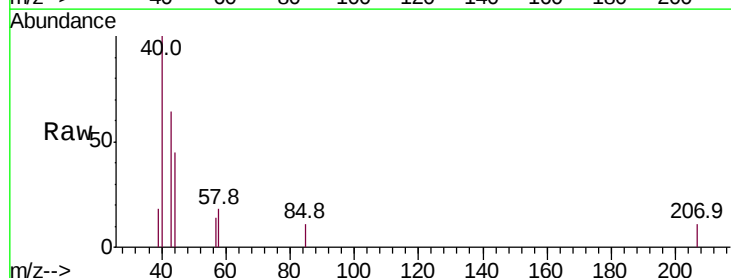
Acq: 22 Jun 2020 15:01

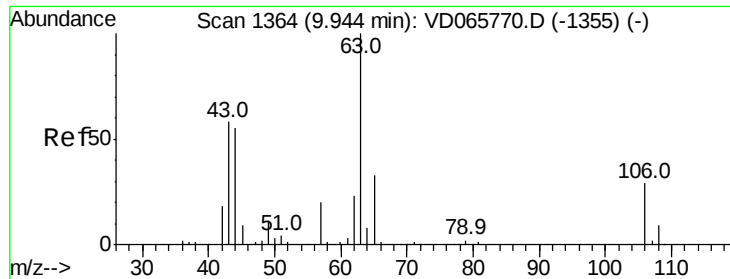
Tgt Ion: 43 Resp: 1801

Ion Ratio Lower Upper

43 100

58 18.0 30.7 46.1#

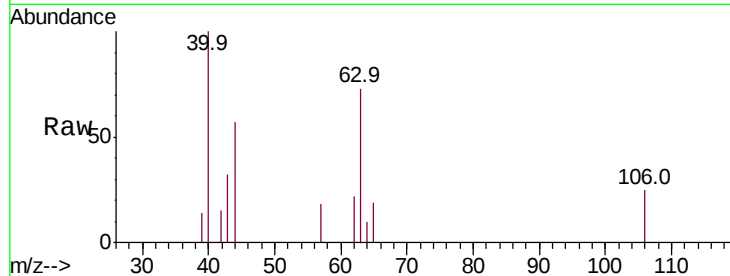




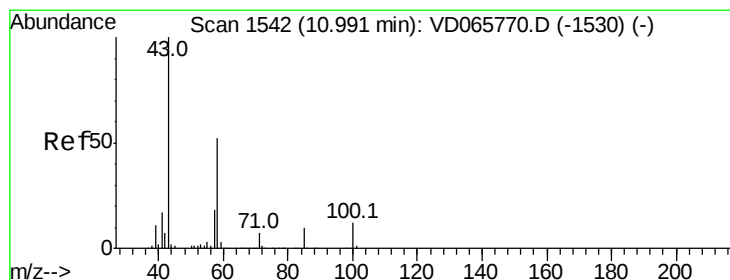
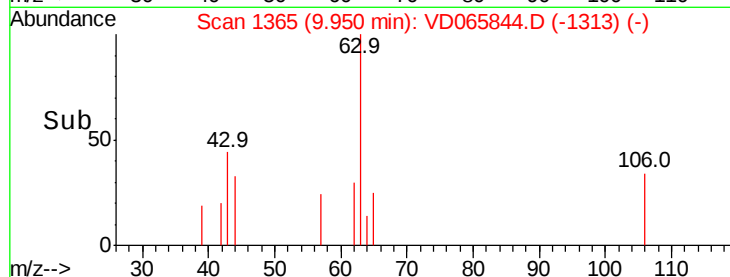
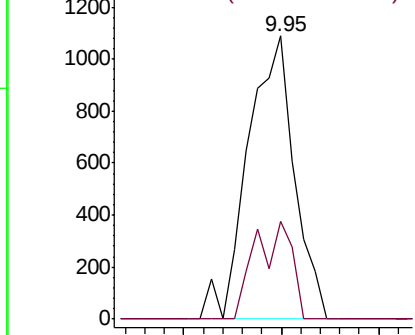
#58
2-Chloroethyl Vinyl ether
Concen: 2.405 ug/l
RT: 9.95 min Scan# 1365
Delta R.T. 0.01 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBL01

Tot Ion: 63 Resp: 1789
Ion Ratio Lower Upper
63 100
106 27.2 23.2 34.8

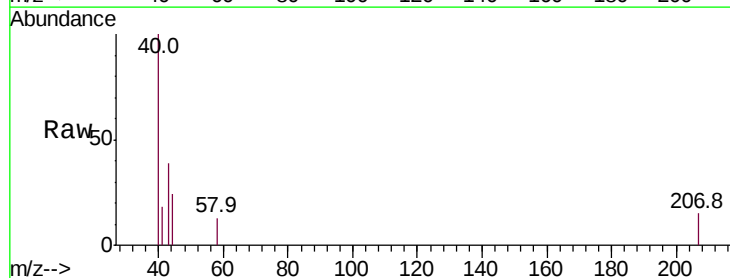


Abundance Ion 62.90 (62.60 to 63.60): VDC
Ion 105.90 (105.60 to 106.60): V

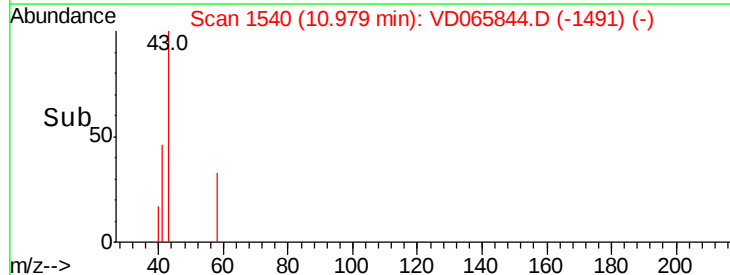
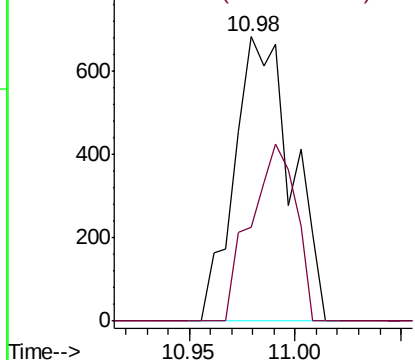


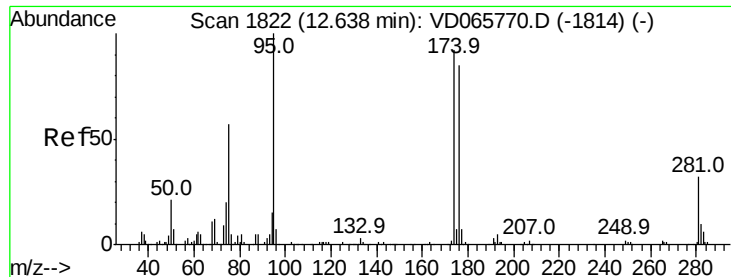
#59
2-Hexanone
Concen: 1.819 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD065844.D
Acq: 22 Jun 2020 15:01

Tgt Ion: 43 Resp: 1286
Ion Ratio Lower Upper
43 100
58 48.8 25.7 77.0



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 48.213 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBL01

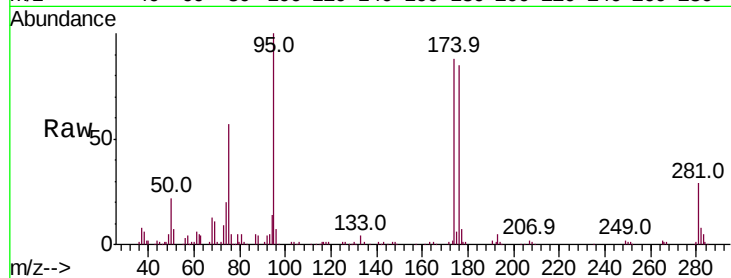
Tot Ion: 95 Resp: 109867

Ion Ratio Lower Upper

95 100

174 81.8 0.0 175.2

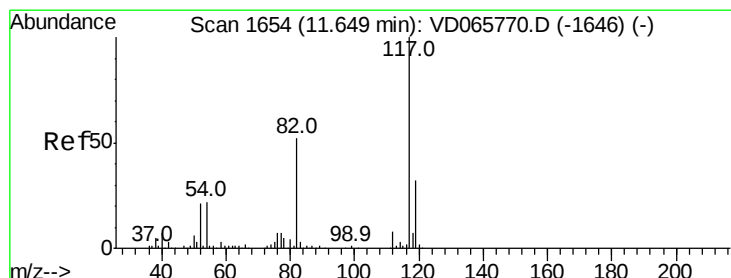
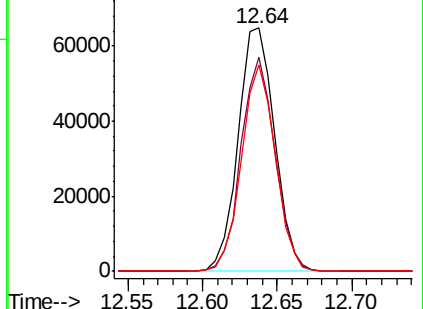
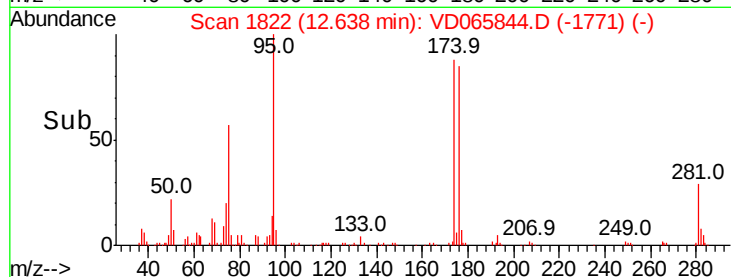
176 78.4 0.0 163.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

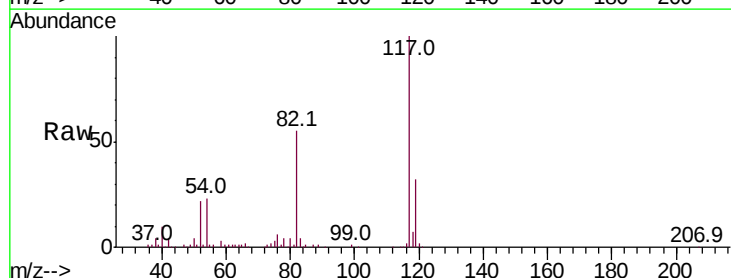
Tgt Ion: 117 Resp: 258722

Ion Ratio Lower Upper

117 100

82 55.2 41.9 62.9

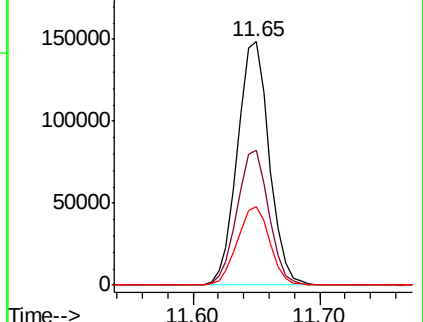
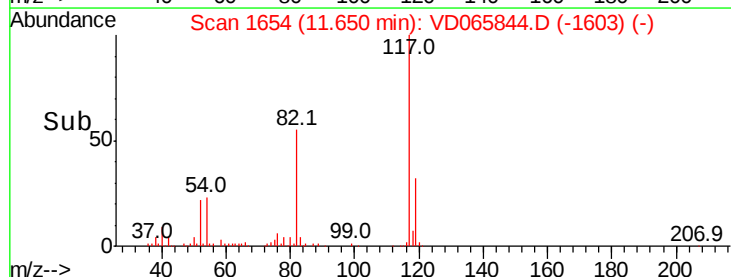
119 32.2 25.3 37.9

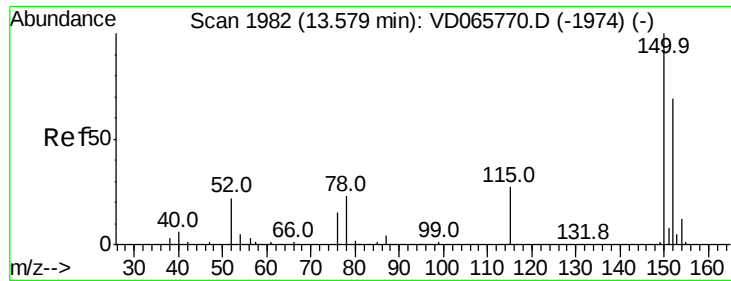


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBL01

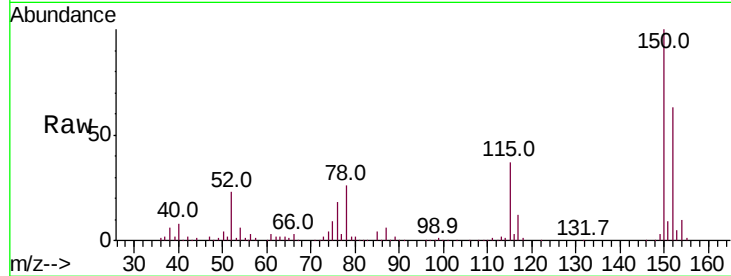
Tot Ion:152 Resp: 114780

Ion Ratio Lower Upper

152 100

115 58.7 28.7 86.1

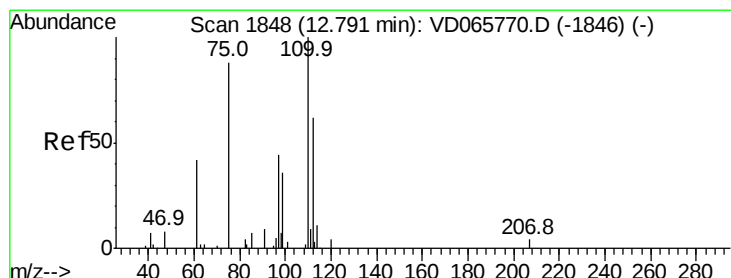
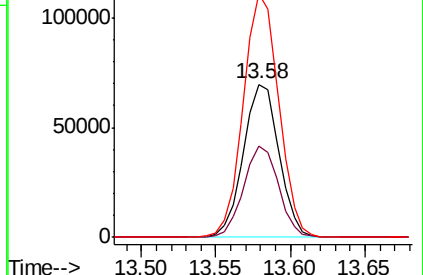
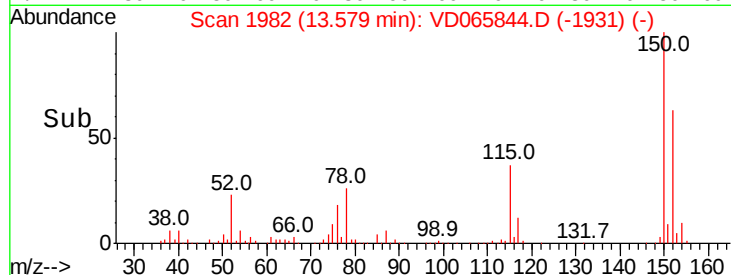
150 158.2 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 67.429 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065844.D

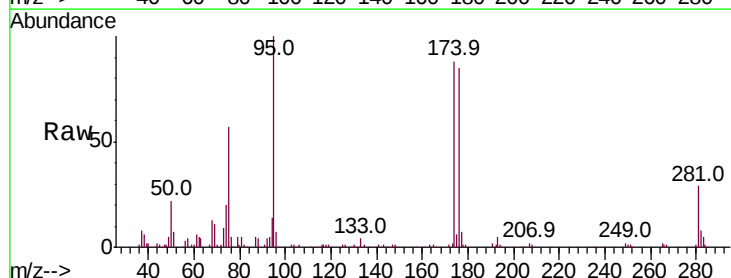
Acq: 22 Jun 2020 15:01

Tgt Ion: 75 Resp: 60191

Ion Ratio Lower Upper

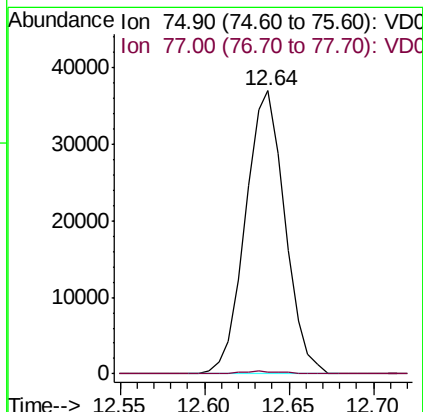
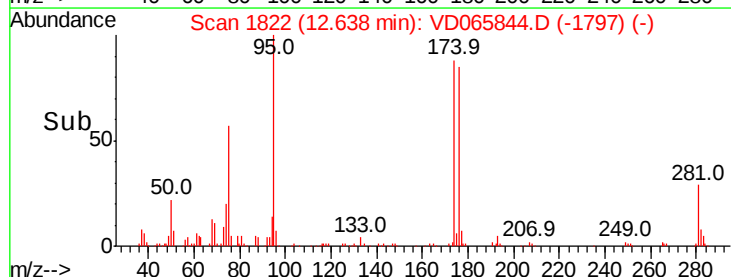
75 100

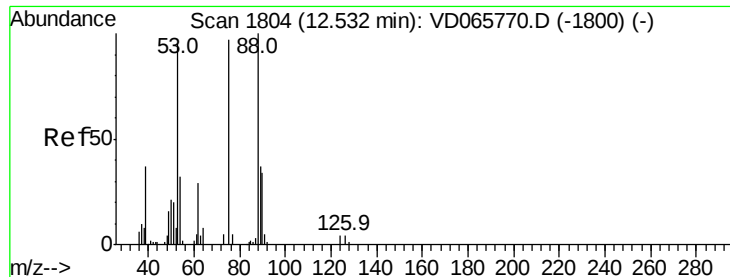
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 145.688 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBL01

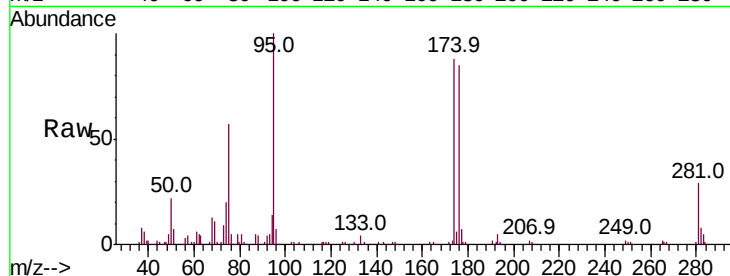
Tot Ion: 75 Resp: 60191

Ion Ratio Lower Upper

75 100

53 0.0 82.6 123.8#

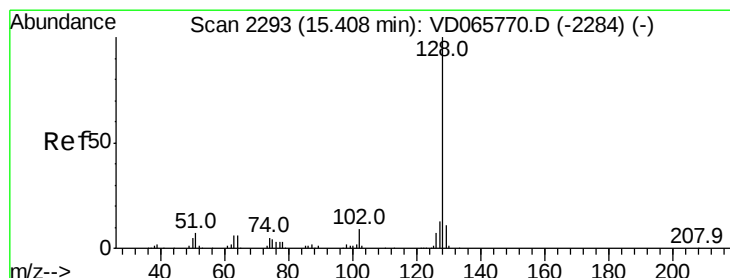
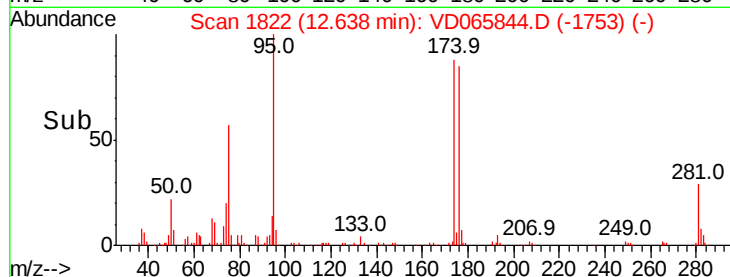
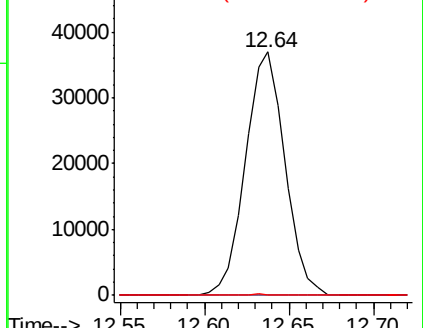
89 0.1 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#95

Naphthalene

Concen: 1.067 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD065844.D

Acq: 22 Jun 2020 15:01

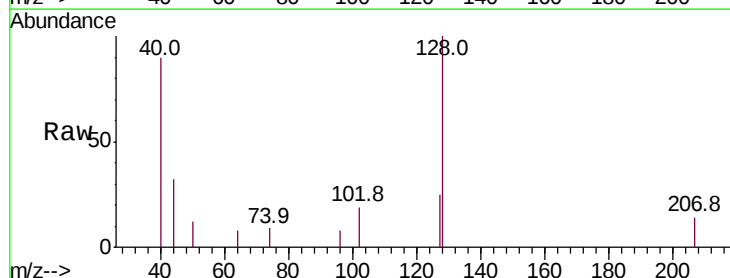
Tgt Ion:128 Resp: 3797

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

129 5.2 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

